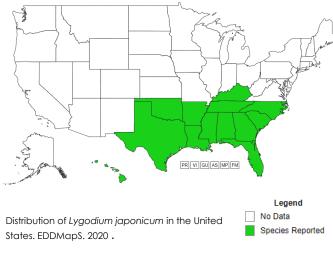
USACE Invasive Plant Species Best Management Practices

Japanese Climbing Fern (Lygodium japonicum) - Lygodiaceae (Fern and Allies)







Habitat & Life History

Low-lying, high rainfall areas – Native to Asia & Australia – FACW, FAC, & FACU – Perennial forb/vine – Reproduces asexually by producing sporophytes

Integrated Management Strategy Selections

Prevention

Chemical

Biological

Mechanical

Cultural



PREVENTION

Proper containment/zoning may improve control



CHEMICAL CONTROL

- Herbicides—alyphosate, imazapyr, metsulfuron (high selectivity, FL only 24C label)
- Use-pattern—foliar, late season (July to early October) prior to peak spore release, may unintentionally harm biota that ferns are attached to



*Refer to product label for specific instructions on rate & use-pattern

BIOLOGICAL CONTROL

Potential biological agent—Neomusotima conspurcatlis (defoliating moth), Floracarus perrepae (gall mite), Neostrombocerus sp. (Lygodium-specific saw fly), Manobia sp. (flea beetles)



MECHANICAL CONTROL

- Hand pull, dig roots
- Mowing, cutting



CULTURAL CONTROL

Prescribed burning



MANAGEMENT SEQUENCING

- Timing of control methods—best option is to perform chemical control in late summer/early fall before spore release
- Monitoring—continual monitoring & immediate removal of newly established plants, remove dead plant material to promote native vegetative growth
- Niche-filling/Restoration—conduct native plantings to combat competitive advantage of invaders



COMMENTS

 Regrowth from roots & spores requires continual management; mechanical methods may contribute to unintentional spread

